

Vitriturf Playground System

Application Instructions

I. Storage of VITRITURF:

A. All VITRITURF materials must be stored indoors, in cool dry storage.

1. **VITRITURF Primer and Binder:** must be protected from moisture and heat. Store at 40 F to 80 F and out of direct sunlight.

2. **VITRITURF Granules:** must be protected from moisture - store out of sunlight.

B. Handling of VITRITURF Components: All components are factory labeled by batch number. Check batch number prior to use. **NOTE: VITRITURF Binder and VITRITURF Primer have a shelf life of six (6) months.** Check all granules of similar colors to ensure they are exactly the same prior to use. **Read material safety data sheets carefully prior to opening containers. Wear protective clothing and eye gear.**

II. MIXING:

A. VITRITURF Binder with SBR shredded granules for Base Mat.

1. VITRITURF Binder is mixed with the SBR shredded granules at the ratio of 82/18 by weight. This equates to approximately one (1) gallon of VITRITURF Binder to one (1) bag of SBR shredded granules.

2. Depending on the size of the project, you may mix the Binder/SBR mix either in a trough with a hoe or a mechanical drum mixer. **Be sure the SBR shredded granules are thoroughly coated.**

B. VITRITURF Binder with EPDM Granules

1. VITRITURF Binder is mixed with the EPDM Granules at the ratio of 82/18 by weight. This equates to approximately 1.25 gallons of VITRITURF Binder to 1 (one) bag of EPDM Granules.

2. Depending on the size of the project, you may mix the granule mix either in a trough with a hoe or a mechanical drum mixer. Be sure that the granules are thoroughly coated.

III. Application of VPS:

A. VITRITURF Primer:

1. Apply Primer by spray or short nap roller at the rate of 300 square feet per gallon. **Do not over saturate substrate.** Allow to tack out (approximately 20 minutes) prior to application of VITRITURF SBR shredded granules (Base Mat). **NOTE: Do not use VITRITURF Primer over compacted stone.**

B. VITRITURF Base Mat:

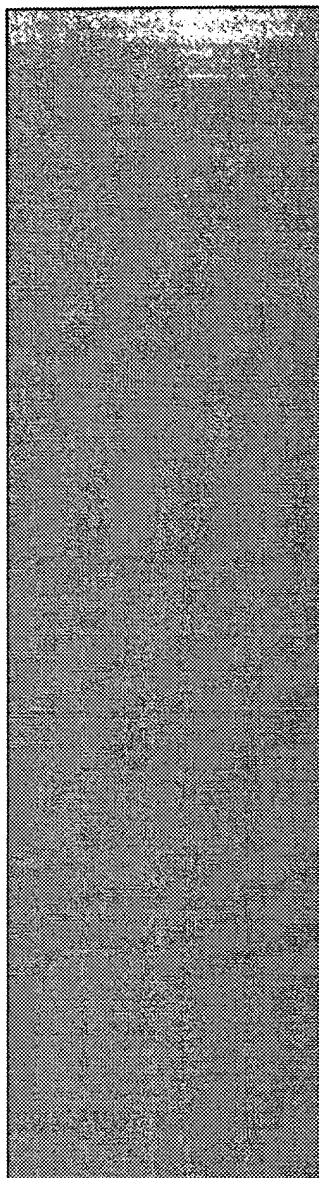
1. Apply mixed Binder/SBR at desired thickness using a screed bar.

2. Using a steel pool trowel even Binder/SBR mixture. Be sure to continuously lubricate trowel with kerosene, diesel fuel or soapy water. **Do not saturate surface with these lubricants.**

3. As the mixture is leveled apply a downward pressure onto the surface so that the mixture compacts tightly.

4. Check surface to be level.

5. With a water bottle apply a spray mist of clean cool water to the surface and float the trowel over the lubricated surface.



6. Allow to dry for a minimum of 24 hours.

C. VITRITURF Primer:

Once the Base Mat has dried apply **VITRITURF Primer** by spray or short nap roller at the rate of 300 square feet per gallon. **Do not over saturate Base Mat.** Allow to tack out (approximately 20 minutes) prior to application of **VITRITURF Wearing Course.**

D. VITRITURF Wearing Course:

1. Apply mixed Binder/Granule at desired thickness using a screed bar.
2. Using a steel pool trowel even Rubber/Granule mixture. Be sure to continuously lubricate trowel with kerosene, diesel fuel or soapy water. Do not saturate surface with these lubricants.
3. As the mixture is leveled apply a downward pressure onto the surface so that the mixture compacts tightly
4. Check surface to be level.
5. With a water bottle apply a spray mist of clean cool water to the surface and float the trowel over the lubricated surface.
6. Allow to dry for a minimum of 48 hours prior to usage.

IV. Cleanup:

1. Clean all tools and surface spotting immediately with Thinner C or diesel fuel prior to drying. **Note: Once Binder has dried it will be extremely difficult to remove from tools or surfaces or hands.**

V. General Precautions:

- A. Wear protective clothing and eye gear.
- B. All substrates must have a minimum of 1% slope to provide positive drainage.
- C. Ambient air temperature shall be 40 F (4 C) or greater and rising at the time of installation of the **VITRITURF** System and shall remain at 400 F (4" C) or greater for at least 7 days after application
- D. Protect from rain for a minimum of 48 hours after application.
- E. Read all MSDS sheets very carefully. If you do not understand them, contact the manufacturer immediately prior to application.
- F. If Binder accidentally comes in contact with eyes, immediately rinse with water and contact a physician.

Vitricon®, Inc.
65 Davids Drive
Hauppauge, NY 11788
800-777-8598
Fax (516) 231-1329
E-mail vturf@aol.com

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	L #	Hits	Search Text	DBs
1	L1	0	("WO-2097194").PN.	EPO; JPO; DERWENT
2	L5	0	("WO-2097194").PN.	EPO; JPO; DERWENT
3	L9	0	("WO-2097194-\$.did.").PN.	EPO; JPO; DERWENT
4	L13	0	("WO2002097194US").PN.	EPO; JPO; DERWENT
5	L17	0	("WO2002097194US").PN.	EPO; JPO; DERWENT
6	L21	0	("2002WO-GB02576.ap,prai.").PN.	DERWENT
7	L22	0	("WO-2097194-\$.did.").PN.	EPO; JPO; DERWENT
8	L26	1	02097194.pn.	EPO; JPO; DERWENT
9	L30	0	wo-02097194-\$.did.	EPO; JPO; DERWENT
10	L34	0	("2002170166").PN.	USPAT; US-PGPUB
11	L37	1	2002170166.pn.	USPAT; DERWENT
12	L40	0	us2002170166.pn.	USPAT; DERWENT
13	L43	60476	tire.	USPAT; US-PGPUB
14	L46	182736	sbs (styrene near2 styrene) sis sebs	USPAT; US-PGPUB
15	L49	3409	43 and 46	USPAT; US-PGPUB
16	L52	1558	49 and elastomer	USPAT; US-PGPUB
17	L55	517785	macadam track (playing adj field) floor tennis sport	USPAT; US-PGPUB

	L #	Hits	Search Text	DBs
18	L58	197	52 and 55	USPAT; US-PGPUB
19	L61	96	58 and polyurethane	USPAT; US-PGPUB
20	L64	19252	46 and 55	USPAT; US-PGPUB
21	L67	2223	64 and polyurethane	USPAT; US-PGPUB
22	L70	934	67 and binder	USPAT; US-PGPUB
23	L73	795	70 and (particle aggregate)	USPAT; US-PGPUB
24	L76	1	("5088724").PN.	USPAT
25	L77	42	73 and tire	USPAT; US-PGPUB
26	L80	1413124	sbs (styrene near2 styrene) sis sebs	EPO; JPO; DERWENT; IBM_TDB
27	L85	484591	macadam track (playing adj field) floor tennis sport	EPO; JPO; DERWENT; IBM_TDB
28	L90	26034	80 and 85	EPO; JPO; DERWENT; IBM_TDB
29	L95	216	90 and tire	EPO; JPO; DERWENT; IBM_TDB
30	L105	1	100 and binder	EPO; JPO; DERWENT; IBM_TDB

	L #	Hits	Search Text	DBs
31	L100	11	95 and polyurethane	EPO; JPO; DERWENT; IBM_TDB
32	L110	376	90 and polyurethane	EPO; JPO; DERWENT; IBM_TDB
33	L115	32	110 and binder	EPO; JPO; DERWENT; IBM_TDB

	L #	Hits	Search Text	DBs
1	L1	49478	sbs (styrene adj butadiene adj styrene) (stryene adj isoprene adj styrene)	USPA T; US-P GPUB
2	L2	7731	1 and (track (wearing adj (course surface)) floor court tennis golf athletic)	USPA T; US-P GPUB
3	L3	2343	2 and (particle particulate granule)	USPA T; US-P GPUB
4	L4	875	3 and polyurethane	USPA T; US-P GPUB
5	L5	3007	(sbs (styrene adj butadiene adj styrene) (stryene adj isoprene adj styrene)) same (granule particle particulate)	USPA T; US-P GPUB
6	L6	407	5 and (track (wearing adj (course surface)) floor court tennis golf athletic)	USPA T; US-P GPUB
7	L7	157	6 and polyurethane	USPA T; US-P GPUB
8	L8	44	7 and ground	USPA T; US-P GPUB

	L #	Hits	Search Text	DBs
9	L9	9616	racetrack (playing adj (surface field)) ((tennis basketball athletic) adj court) (wearing adj course) (sport adj surface)	USPA T; US-P GPUB
10	L11	26	10 and (particle granule particulate)	USPA T; US-P GPUB
11	L12	10	11 and binder	USPA T; US-P GPUB
12	L13	4	12 and polyurethane	USPA T; US-P GPUB
13	L14	6	12 not 13	USPA T; US-P GPUB
14	L15	16	11 not 12	USPA T; US-P GPUB
15	L10	82	9 and 1	USPA T; US-P GPUB
16	L16	8379 11	"82" not 11	USPA T; US-P GPUB
17	L17	56	10 not 11	USPA T; US-P GPUB

	L #	Hits	Search Text	DBs
18	L18	6328 58	sbs (styrene adj butadiene adj styrene) (stryene adj isoprene adj styrene)	EPO; JPO; DERW ENT; IBM_ TDB
19	L19	5711	racetrack (playing adj (surface field)) ((tennis basketball athletic) adj court) (wearing adj course) (sport adj surface)	EPO; JPO; DERW ENT; IBM_ TDB
20	L20	16	18 and 19	EPO; JPO; DERW ENT; IBM_ TDB